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CONTROLLED DOCUMENT
EG&G - ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT

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**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-GW
Procedure No.: Table of Contents, Rev 13
Page: 1 of 2
Effective Date: 05/05/93
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
VOLUME VI: AIR (AP)

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DCN 93.01	Measuring Water Levels in Well Points	2	01/28/93
GW.02	Well Development	2	05/12/92
DCN 92.01	Practice Clarification	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
DCN 93.01	Well Fluid Volumes	2	04/13/93
GW.03	Pump-In Borehole Packer Testing	2	05/12/92
GW.04	Slug Testing	2	05/12/92
*DCN 93.01	Re-title Sect.5.2 and Add Bail-down Test	2	05/05/93
GW.05	Field Measurement of Groundwater Field Parameters	2	05/12/92
DCN 92.01	Eliminate Unsafe Work Practice	2	10/26/92
GW.06	Groundwater Sampling	2	05/12/92
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DCN 93.01	Hydropunch	2	04/15/93
DCN 93.02	New GW Sample Collection Log	2	05/04/93

ADMIN RECORD

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11, 1991

A-SW-000603

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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GW.08	Aquifer Pumping Tests	1	05/12/92
DCN 92.01	Expired	1	05/22/92
DCN 92.02	Expired	1	05/15/92

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 EG&G - ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)
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Procedure Number 5-21000-OPS- GW.4, Rev. 2

Page 1 of 1

Title Slug Tests	Date <u>5-5-93</u> <i>dw</i> 5 April 93 1/24/93	DCN Number 5-21000-OPS-93.01
Expires 5 April 94 <u>5-5-94</u> <i>dw</i> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>Operable Unit 7, Present Landfill RFI/RI Investigations</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	4/7	5.2	Re-title Section 5.2 "Field Procedures For Slug Testing". Delete reference to injection. Title existing text under 5.2 as "5.2.1 Injection Test Field Procedures". Add Section 5.2.2 "Withdrawal (Bail-Down) Test Field Procedures".
2	5/7	5.2.2 (new)	<p>The bail -down test is set up similar to the injection test except that the head differential is created by removing water from the well rather than lowering a slug into the well.</p> <p>Lower the pressure transducer probe to a depth where it will have minimal or no disturbance from the bailer when it is lowered into the well. Follow all pre-test procedures in section 5.1.</p> <p>Using a decontaminated bailer, begin to remove water from the well. This should be done as quickly as possible with care taken not to disturb the transducer or create spillage. Water should be handled the same as well development water. Volumes are dependent upon well conditions; quickly recharging wells require more volume to be removed. Usually 2-3 feet of head differential is adequate to perform a test.</p> <p>Begin the test immediately after removing the required volume of water.</p> <p>Data analysis is similar to methods used for slug testing.</p>

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

Items #1 & #2:

- Well conditions in drier areas of the Present Landfill do not create adequate displacement when the slug is lowered to perform the slug test.
- Data analysis is identical. No impact is anticipated to data quality.
- Better recovery curves can be obtained from the bail-down method in drier conditions.

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Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	5/4/93	<i>[Signature]</i>	User	X	8-April-93
<i>[Signature]</i>	EOM	X	5/3/93	<i>[Signature]</i>	USER	X	8-April-93
				<i>[Signature]</i>	EQS		4/8/93
				<i>[Signature]</i>	EQS		4/23/93
Approval of Responsible Manager <i>[Signature]</i>	Date <u>8 Apr 93</u>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <u>upon receipt</u>	Date Posted			